

## MAGNETIC CORE FOR xDSL MODEM

## TRANSFORMER AND ITS COMPOSITION

ABSTRACT OF THE DISCLOSURE

A magnetic core composition for an xDSL modem transformer having a main component comprised of MnO: 22.0 to 34.5 mol% and ZnO: 12.0 to 25.0 mol% and the rest of substantially  $Fe_2O_3$ . With a magnetic core for a transformer made of this composition, the THD of the transformer becomes not more than -80 dB in a broad frequency band, so this can be used advantageously as the magnetic core for an xDSL modem transformer.